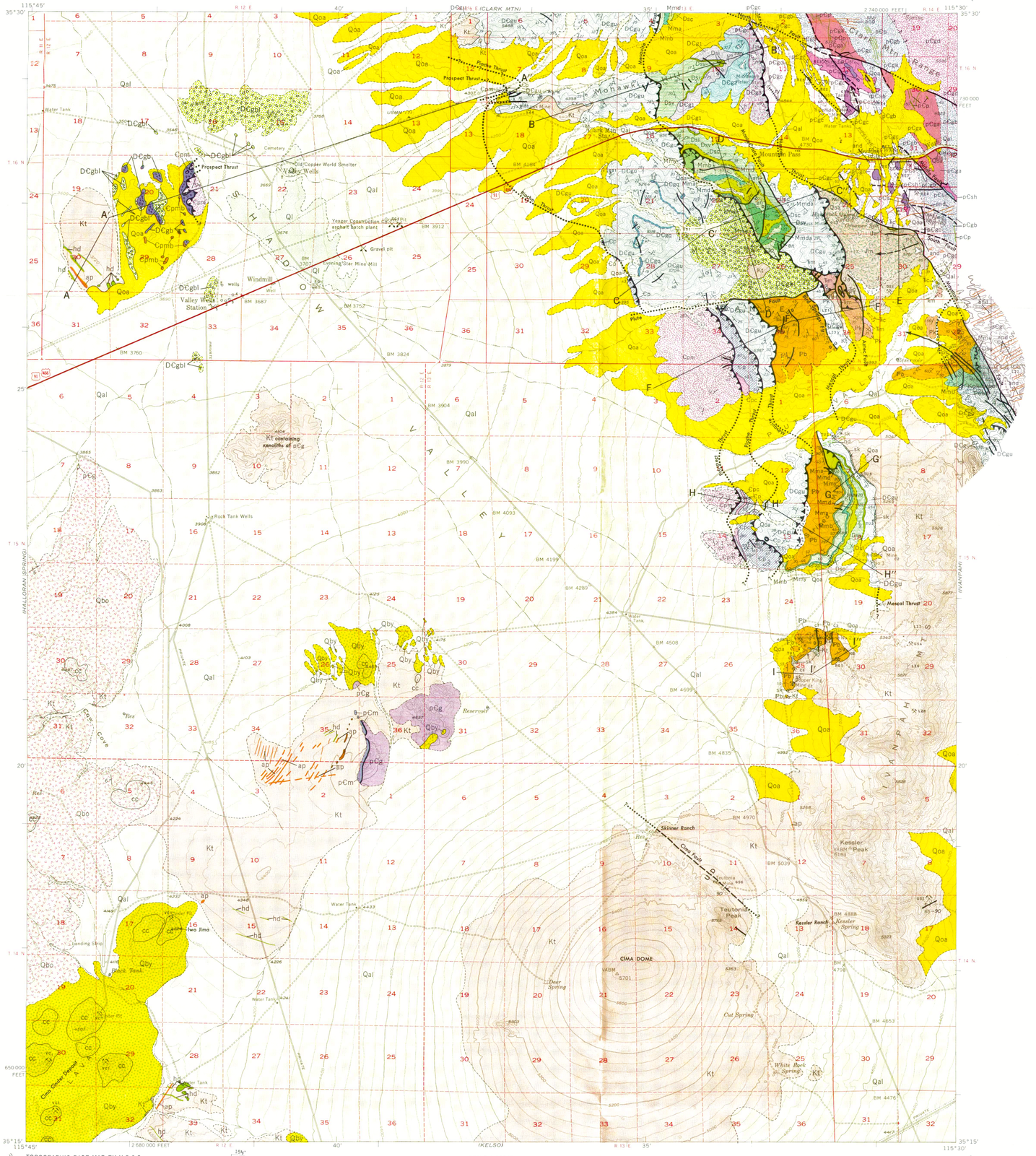

EXPLANATION

QUATERNARY — Holocene

Qal — Alluvium

Qby / Qbo — Volcanic Flows
Younger and older flows of olivine basalt with associated cinder cones (cc)

Ql — Lake Beds

Qoa — Older Alluvium

TERTIARY (?)

ry, hd, and, ap, an — Dikes
ap = aplite; ry = rhyolite and quartz latite; hd = hornblende diorite; and = andesitic; an = andesite

CRETACEOUS

Kt (sk) — Teutonia Quartz Monzonite
sk = mineralized skarn

JURASSIC (?)

Jm — Mountain Pass Rhyolite*
Mostly massive red porphyritic flows

JURASSIC

Ja — Aztec Sandstone
Multicolored non-marine sandstone

TRIASSIC — Upper

Tc — Chinle Formation
Massive reddish-brown non-marine sandstone

UNCONFORMITY

TRIASSIC — Lower

Tm — Moenkopi Formation
Thin-bedded buff and blue-gray limestone

UNCONFORMITY (?)

PERMIAN

Pk — Kaibab Limestone
Massive gray carbonate rock with abundant chert

UNCONFORMITY (?)

PENNSYLVANIAN — Lower

Pb — Bird Spring Formation
Multicolored carbonate rock with some gray quartzite weathering brown

MISSISSIPPIAN — Upper, Middle and Upper (?), Lower

Mmu: Mmy, Mmb, Mma, Mmd, Mmda — Monte Cristo Limestone
Mmy = Yellowpine Limestone Member
Mmb = Bullion Dolomite Member
Mma = Anchor Limestone Member
Mmd = Dawn Limestone Member
Mmda = Dawn and Anchor Members
Mmu = Undifferentiated Formation

DEVONIAN — Middle & Upper

Dsu: Dsc, Dsv, Dsi — Sultan Limestone
Dsc = Crystal Pass Limestone
Dsv = Valentine Limestone Member
Dsi = Ironside Dolomite Member
Dsu = Undifferentiated Formation

CAMBRIAN & DEVONIAN — Upper Cambrian to Lower Devonian

DCgu: DCg1, DCg2, DCg3, DCgbl, DCgb, DCgq — Goodsprings Dolomite
DCg1 = medium-gray carbonate rocks
DCg2 = light-gray carbonate rocks
DCg3 = light- and dark-gray carbonate rocks
DCgbl = black breccias of carbonate rocks
DCgb = brown breccias of carbonate rocks
DCgq = dark-gray limy quartzite
DCgu = Undifferentiated Formation

CAMBRIAN — Lower & Middle

Cp, Cpc — Pioche Shale
Gray to green fine-grained metaclastic rocks
Cpc = buff-colored dolomitic limestone

CAMBRIAN — Lower

Cpm, Cpmb — Prospect Mountain Quartzite
White, brown, and gray-black fine grained quartzite
Cpmb = brecciated brown-quartzite

PRECAMBRIAN

pCc, pCs, pCsh, pCp, pCgd, pCga, pCgc, pCg, pCgb, pCm — Meta-igneous and Metasedimentary Rock Complexes
pCc = mineralized carbonate rocks
pCs = syenite and granite
pCsh = biotite-rich syenite and shonkinite
pCp = pegmatites
pCgd = sillimanitic biotite-garnet gneiss complex
pCgc = granite augen gneiss complex
pCgb = mixed granitic gneiss complex
pCga = biotite granite gneiss complex
pCg = biotite-hornblende gneiss
pCm = marble

SYMBOLS

Contact (*dashed where approximate, dotted where concealed*)
Fault (*dashed where approximate, dotted where concealed; U-upthrown side, D-downthrown side*)
Thrust Fault (*dashed where approximate, dotted where concealed; barb on upper plate*)
Anticline
Syncline (*showing plunge of axis*)
Overturned syncline (*showing plunge of axis and direction of dip of limbs*)
Overturned anticline (*showing direction of dip of limbs*)
New stratigraphic name*
Strike and dip of beds
Vertical beds
Horizontal beds
Overturned beds
Strike and dip of crumpled beds
Sand and gravel pit
Mine or mineral deposit
Strike and dip of foliation
Talus flow
Well
Fault breccia